

ABSTRACT

Reception channel processing units (110 to 130) generate local channel reception information based on reception states of respective input reception signals, and a channel-information processing unit (30) generates local feedback information based on the local channel reception information generated by the reception channel processing units (110 to 130) and resource information and inserts the generated local feedback information into radio signals to be transmitted on channels used for transmission. In addition, a MAC unit (20) determines transmission systems and transmission speeds of respective channels based on respective pieces of local feedback information inserted by other radio communication apparatus, and transmission channel processing units (410 to 430) transmit the respective radio signals based on the determined transmission systems and transmission speeds.

(12)特許協力条約に基づいて公開された国際出願

(19) 世界知的所有権機関
国際事務局(43) 国際公開日
2004 年 12 月 29 日 (29.12.2004)

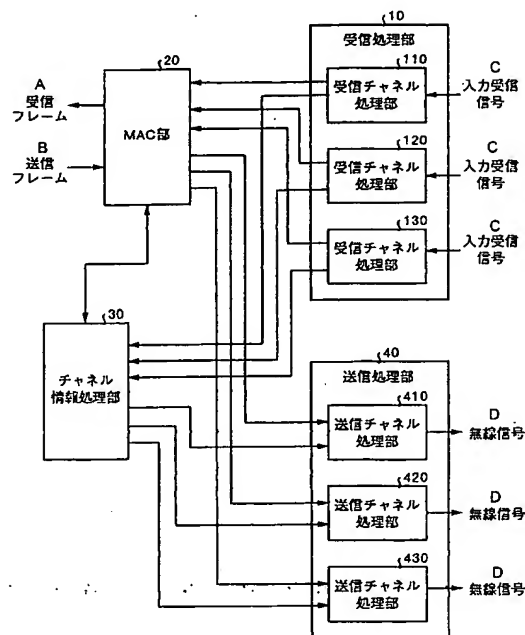
PCT

(10) 国際公開番号
WO 2004/114620 A1

- (51) 国際特許分類: H04L 29/02
- (21) 国際出願番号: PCT/JP2004/008687
- (22) 国際出願日: 2004 年 6 月 15 日 (15.06.2004)
- (25) 国際出願の言語: 日本語
- (26) 国際公開の言語: 日本語
- (30) 優先権データ:
特願2003-173725 2003 年 6 月 18 日 (18.06.2003) JP
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- (81) 指定国 (表示のない限り、全ての種類の国内保護が可能): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, [続葉有]

(54) Title: RADIO COMMUNICATION APPARATUS

(54) 発明の名称: 無線通信装置



A...RECEPTION FRAME
B...TRANSMISSION FRAME
20...MAC PART
30...CHANNEL INFORMATION PROCESSING PART
10...RECEPTION PROCESSING PART
110...RECEPTION CHANNEL PROCESSING PART
120...RECEPTION CHANNEL PROCESSING PART
130...RECEPTION CHANNEL PROCESSING PART
C...INPUT RECEIVED SIGNAL
40...TRANSMISSION PROCESSING PART
410...TRANSMISSION CHANNEL PROCESSING PART
420...TRANSMISSION CHANNEL PROCESSING PART
430...TRANSMISSION CHANNEL PROCESSING PART
D...RADIO SIGNAL

(57) Abstract: Reception channel processing parts (110-130) produce, based on the reception statuses of their respective input received signals, local station channel reception information. A channel information processing part (30) produces, based on both the local station channel reception information produced by the reception channel processing parts (110-130)

[続葉有]